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Harold
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Water Supply Outlook For Idaho



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES
NOAA, NATIONAL WEATHER SERVICE

AS OF
Jan. 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Fresh powder snow on Elephant Mountain, near the West Fork of Hyalite Creek in Montana.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

PETER C. MEYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON, D C

|||||

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

|||||

In Cooperation with

A. KENNETH DUNN
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

|||||

Report prepared by

GERALD A. BEARD, Snow Survey Supervisor
PETER L. PALMER, Hydrologist
PAUL K. BROWN, JR., Electronics Technician
KATHERN G. WOOTTON, Statistical Assistant
SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR JANUARY 1, 1983

In general, the January 1, 1983 snow surveys indicate an above to well above snowpack throughout the State. Snowpack conditions range from a low of 92 percent of normal on the Clearwater River in Northern Idaho to a high of 217 percent on the Jordan Creek drainage in the southwestern part of the State. Low elevation snowpacks are extremely high in the southern half of the State with many low elevation sites reporting snow water equivalents in excess of the average March 1 readings and establishing a new record high for January 1.

Precipitation for December was 140 percent of normal and the State is at 135 percent for the water year. The range for December was from 79 percent at Grangeville to 205 percent at Ketchum. Temperatures, which averaged near normal, allowed much of the precipitation to remain as snow.

Most mountain watersheds received above average moisture prior to snow accumulation in October and soil moisture conditions are near or above normal throughout the State.

Reservoir carry over storage is near normal to well above normal in most reservoirs, ranging from 84 percent of average in Jackson Lake to 164 percent in Little Wood Reservoir. The exceptions are Arrowrock and Lucky Peak reservoirs on the Boise drainage which are 55 percent and 399 percent of normal respectively.

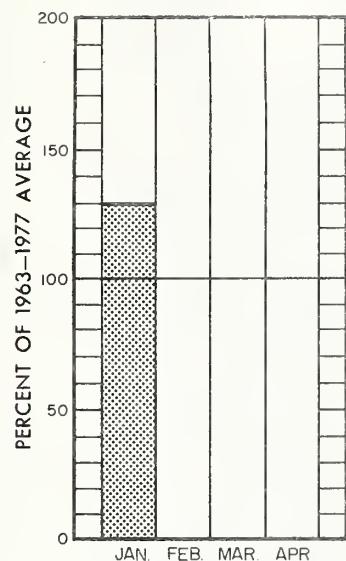
Streamflow forecasts range from 93 percent of normal on Clarks Fork at Whitehorse Rapids to 150 percent inflow to Owyhee Lake. Most other forecasts range from 100 percent to 124 percent of normal.

If the remainder of the season remains near normal, water supplies should be adequate throughout Idaho.

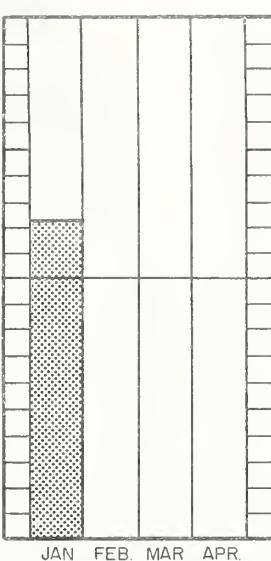
SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses

As Compared To 1963 - 1977 15 Year Average

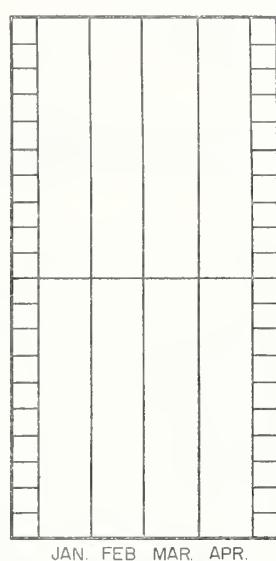
JANUARY 1, 1983



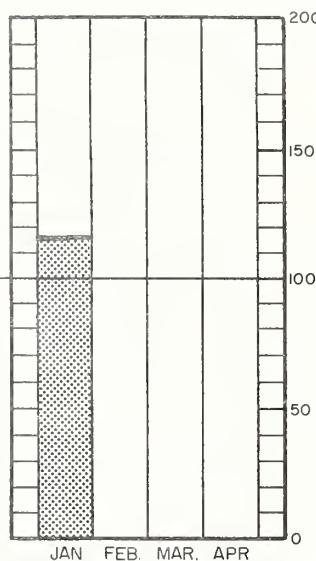
SCHWEITZER RIDGE



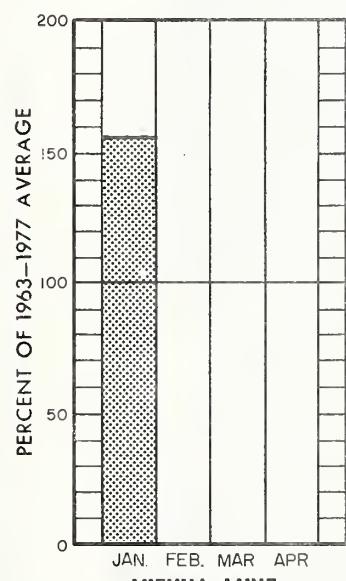
LOOKOUT



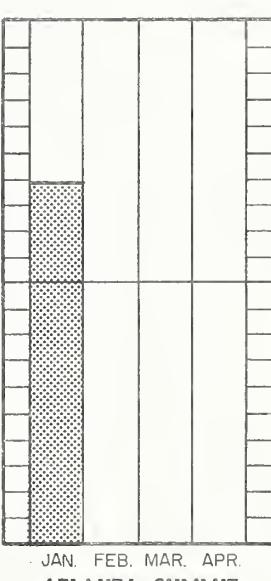
LOST LAKE



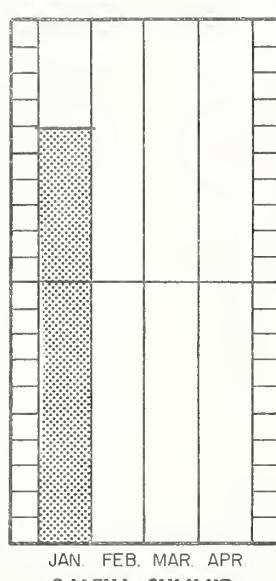
DEADWOOD SUMMIT



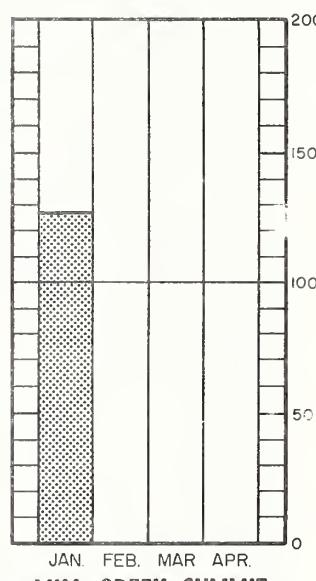
VIENNA MINE



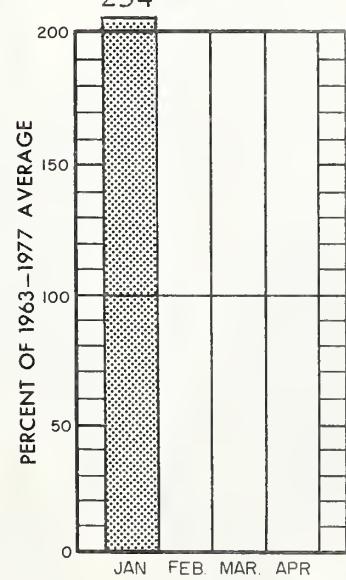
ATLANTA SUMMIT



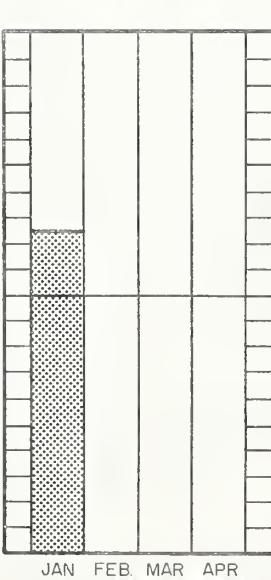
GALENA SUMMIT



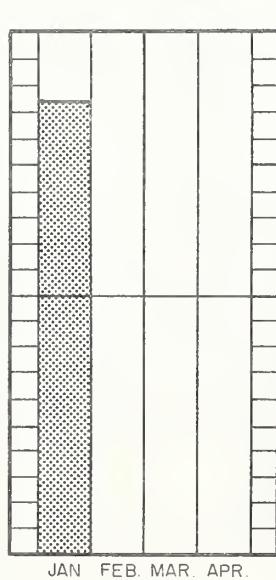
MILL CREEK SUMMIT



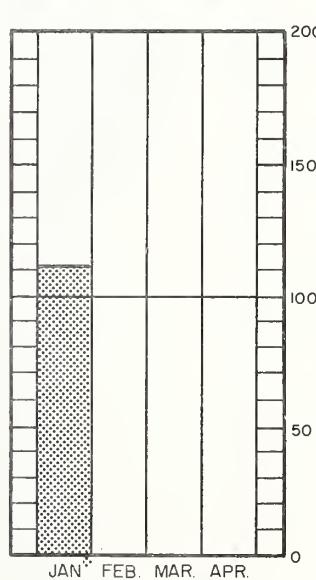
WET CREEK SUMMIT



POLE CREEK RANGER STATION



ISLAND PARK



SOMSEN RANCH

COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA BASIN</u>			
Kootenai River	20	112	83
Pend Oreille River	72	106	95
Clark Fork River	49	94	92
Flathead River	23	127	100
Priest River	4	152	133
Spokane River	3	128	102
<u>LOWER SNAKE RIVER BASIN</u>			
Clearwater River	4 - 6	77	92
Salmon River	11 - 13	105	134
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5 - 6	119	208
Big Lost River	3	98	-
Little Wood River	3 - 4	147	196
Big Wood River	7 - 8	94	173
Boise River	10	102	150
Payette River	9 - 14	116	136
Weiser River	1	199	140
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	1	82	152
Salmon Falls Creek	4 - 5	104	137
Bruneau River	1	106	125
Owyhee River	6	128	184
Jordan Creek	1	113	217
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Above Palisades Reservoir	11	-	105
Camas-Beaver Creeks	2	196	191
Henrys Fork River	7	120	150
Teton River	4	107	120
Willow Creek	1	-	150
Blackfoot River	2	-	104
<u>GREAT BASIN</u>			
Bear River - Upper	2	54	100
Bear River - Lower	14	69	121
Montpelier Creek	2 - 4	69	124
Mink Creek	1	106	144
Cub River	2	-	137

SNOW WATER DEPTHS
As percent of 1963-77 15 year average

JANUARY 1983

IDAHO

20 0 20 40 60 80 100 120
SCALE IN MILES

LEGEND

 Much Above Average
more than 130 percent

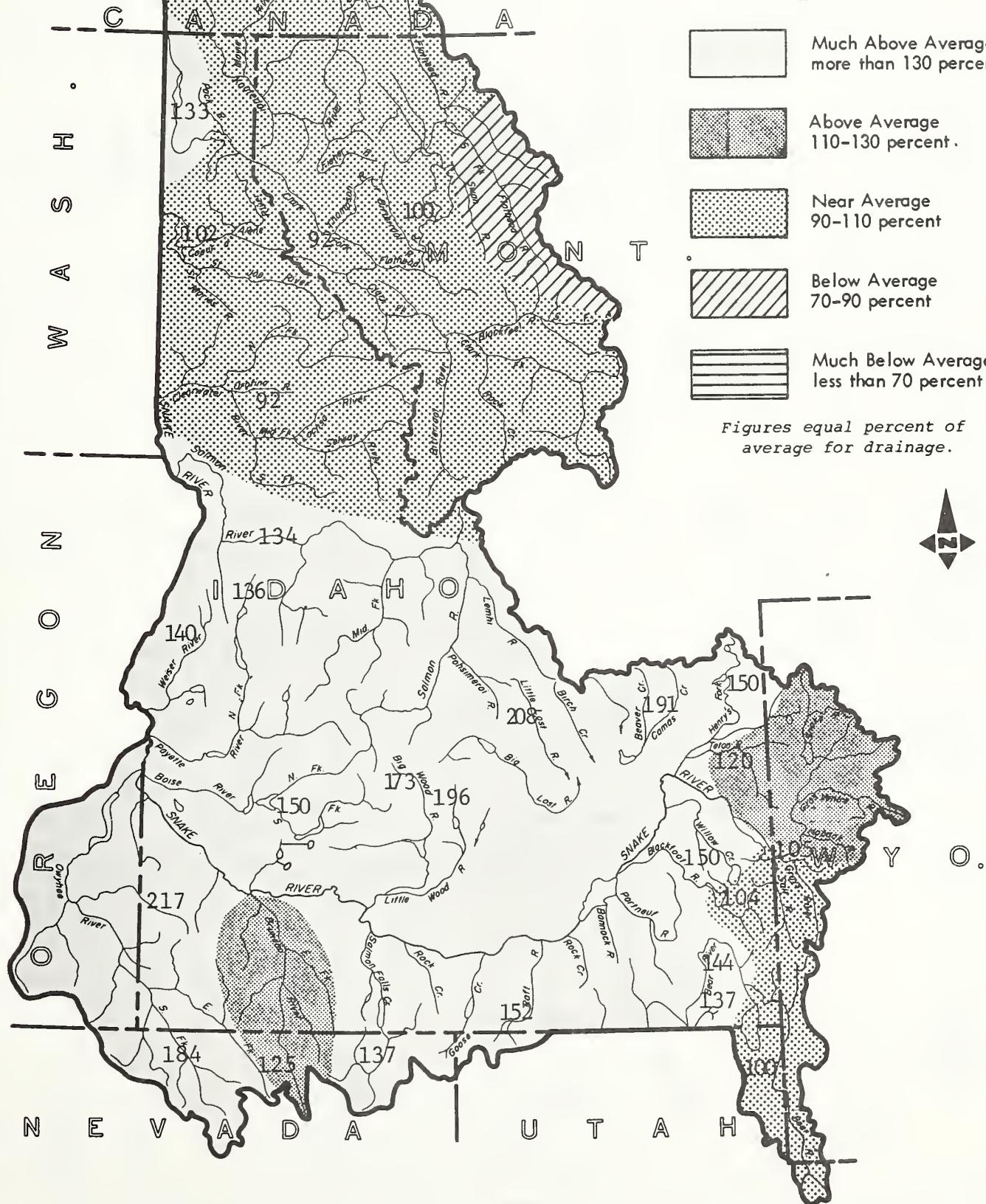
 Above Average
110-130 percent.

 Near Average
90-110 percent

 Below Average
70-90 percent

 Much Below Average
less than 70 percent

Figures equal percent of
average for drainage.



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	3224.0	2603.0	2624.0
Flathead	1791.0	1284.0	1171.0	1428.0
Pend Oreille	1155.1	427.0	133.3	331.1
Noxon	334.6	327.0	322.8	318.7
<u>Spokane</u>				
Coeur d'Alene	225.1	97.8	82.5	129.9
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	624.4	502.4	511.9	599.7
Palisades	1200.0	1165.7	555.9	897.8
American Falls	1673.0	1201.2	795.1	1019.3
Island Park	127.0	107.2	78.9	92.4
Grassy Lake	15.2	12.1	Est. 12.3	10.1
Brownlee	980.2	959.6	744.0	808.1
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	25.2	8.6	23.5
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	39.1	14.2	45.7
<u>Big Lost</u>				
Mackay	44.2	37.8	--	26.7
<u>Big Wood</u>				
Magic	191.5	153.3	60.0	98.4
<u>Little Wood</u>				
Little Wood	30.0	22.9	10.5	14.0
<u>Fish Creek</u>				
Carey Valley	14.4	7.6	2.6	--
<u>Boise</u>				
Anderson Ranch	423.2	351.4	334.7	301.1
Arrowrock	286.6	120.0	192.7	216.8
Lucky Peak	278.2	212.1	19.8	53.1
Lake Lowell (Deer Flat)	169.0	130.2	103.4	116.1
<u>Owyhee</u>				
Owyhee	715.0	558.6	381.7	405.5
<u>Payette</u>				
Cascade	653.2	432.8	443.8	379.0
Deadwood	161.9	76.3	79.7	74.3
<u>Weiser</u>				
Mann Creek	11.1	6.9	5.6	--
<u>Clearwater</u>				
Dworshak	2016.0	1179.5	1203.0	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1176.8	882.5	971.8

*Period of Record.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁺

UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonia	(at)	8760	99	Apr-Sep	--	8858
		7620	99	Apr-Jul	--	7708
		6090	99	Apr-Jun	--	6114

PEND OREILLE RIVER

Clark Fork River

Whitehorse Rapids	(at)	12900	94	Apr-Sep	--	13781
		11700	93	Apr-Jul	--	12519
		9940	93	Apr-Jun	--	10633

Priest River

Priest River 1/

Priest River 1/	(at)	932	104	Apr-Sep	--	--
		876	104	Apr-Jul	--	841

SPOKANE RIVER

Post Falls 2/	(at)	2940	101	Apr-Sep	--	2910
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St. Joe River

Calder	(at)	1320	101	Apr-Sep	--	1309
		1250	107	Apr-Jul	--	1238

SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran 3/	(at)	940	104	Apr-Sep	--	903
Palisades Inflow 3/		4035	104	Apr-Sep	--	3863
Heise 4/	(nr)	4300	101	Apr-Sep	--	4247
		3614	102	Apr-Jul	--	3527
Blackfoot 5/	(nr)	4760	104	Apr-Jul	--	4579

Henrys Fork

Ashton 6/	(nr)	810	110	Apr-Sep	--	737
		612	112	Apr-Jul	--	547
Rexburg 7/	(nr)	1680	110	Apr-Sep	--	1534

Teton River

South Leigh Creek	(ab)	160	107	Apr-Jul	--	150
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Salmon Falls Creek

San Jacinto	(nr)	113	119	Mar-Sep	--	95
		108	120	Mar Jul	--	90
		102	120	Mar-Jun	--	85

Bruneau River

Hot Springs	(nr)	310	124	Mar-Sep	--	251
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Little Lost River

Howe	(nr)	52.5	117	Apr-Sep	--	45
	(bl)	48	117	Apr-Sep	--	41
		31	119	Apr-Jun	--	26
Wet Creek	(bl)	47.5	116	Apr-Sep	--	41

Howell Ranch	(at)	255	113	Apr-Sep	--	225
		226	114	Apr-Jul	--	199
		178	116	Apr-Jun	--	154

Mackay 8/	(nr)	231	113	Apr-Sep	--	204
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Big Wood River

Magic Reservoir		445	140	Apr-Sep	--	319
Inflow 9/		465	140	Mar-Jul	--	332

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD						
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET						
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁺					
<u>Little Wood River</u>										
Carey <u>10/</u>	(nr)									
		150	140	Apr-Sep	--					
		138	140	Apr-Jul	--					
		123	141	Apr-Jun	--					
					107					
					98.5					
					87					
<u>Boise River</u>										
Twin Springs	(nr)									
		874	119	Apr-Sep	--					
		806	119	Apr-Jul	--					
					733					
					676					
Boise <u>11/</u>	(nr)									
		2000	121	Apr-Sep	--					
		1850	121	Apr-Jul	--					
		1645	121	Apr-Jun	--					
					1656					
					1536					
					1360					
<u>South Fork</u>										
Anderson Dam <u>12/</u>	(at)									
		819	132	Apr-Sep	--					
					622					
<u>Owyhee River</u>										
Gold Cr., Nv <u>13/</u>	(nr)									
Owyhee, Nv <u>13/</u>	(nr)									
Lake Owyhee										
net inflow <u>14/</u>										
		30	130	Apr-Jul	--					
		110	138	Apr-Jul	--					
		558	142	Apr-Sep	--					
		867	150	Feb-Jul	--					
					23					
					80					
					392					
					578					
<u>Payette River</u>										
Horseshoe Bend <u>15/</u>	(nr)									
		2200	118	Apr-Sep	--					
		2040	119	Apr-Jul	--					
					1860					
					1721					
<u>North Fork</u>										
Cascade <u>16/</u>	(at)									
Banks <u>16/</u>	(nr)									
		643	114	Apr-Sep	--					
		835	115	Apr-Sep	--					
					564					
					726					
<u>South Fork</u>										
Lowman	(nr)									
		516	113	Apr-Jul	--					
					458					
<u>Weiser River</u>										
Weiser	(nr)									
		527	119	Apr-Sep	--					
		664	119	Mar-Sep	--					
					442					
					558					
<u>Salmon River</u>										
Whitebird	(at)									
		7500	104	Apr-Sep	--					
					7196					
<u>Clearwater River</u>										
Spalding	(at)									
		8310	96	Apr-Sep	--					
					8672					
<u>GREAT BASIN</u>										
<u>BEAR RIVER</u>										
Harer	(at)									
		332	100	Apr-Sep	--					
					332					
<u>Montpelier Creek</u>										
Montpelier	(nr)									
		18.3	132	Apr-Sep	--					
					13.9					
<u>Cub River</u>										
Preston	(nr)									
		58	116	Apr-Sep	--					
		55	117	Apr-Jul	--					
					50					
					47					
<u>1/</u>	Observed flow corrected for storage in Priest Lake.									
<u>2/</u>	Observed flow corrected for storage in Coeur d'Alene Lake.									
<u>3/</u>	Corrected for storage in Jackson Lake.									
<u>4/</u>	Corrected for storage in Jackson Lake and Palisades.									
<u>5/</u>	Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.									
<u>6/</u>	Corrected for storage in Henry's Lake and Island Park Reservoir.									
<u>7/</u>	Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.									
<u>8/</u>	Observed flow corrected for storage in Mackay Reservoir.									
<u>9/</u>	Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.									
<u>10/</u>	Corrected for storage in Little Wood Reservoir.									
<u>11/</u>	Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.									
<u>12/</u>	Corrected for storage in Anderson Ranch Reservoir.									
<u>13/</u>	Corrected for storage in Wildhorse Reservoir.									
<u>14/</u>	From Bureau of Reclamation records of inflow.									
<u>15/</u>	Corrected for storage in Cascade and Deadwood Reservoirs.									
<u>16/</u>	Corrected for storage in Cascade Reservoir.									
Cooperative forecasts released by Soil Conservation Service and National Weather Service.										
(c) Assuming normal meteorological conditions.										
+1963-1977 period.										

SNOW

DRAINAGE BASIN and or SNOW COURSE		Elevation	THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	Last Year
NAME & DRAINAGE							Average
Above Burke	Coeur d'Alene	4100	12/29	35	7.8	5.2	9.3*
Antelope Ridge	Owyhee	6180	12/28	18	4.2	4.3	--
Aspen Grove	Willow	6500	12/29	30	7.1	--	--
Atlanta Summit	Boise	7600	12/28	79	21.2	23.5	15.2*
Atlanta Townsite	Boise	5370	12/28	32	7.8	--	--
Bad Bear	Boise	4940	12/29	31	7.1	5.4	5.2*
Banner Summit	Payette	7040	12/28	64	16.9	--	--
Bear Basin	Little Salmon	5350	12/28	52	12.4	--	--
Bear Canyon	Big Lost	7900	12/28	53	12.6	12.7	--
Bear Saddle	Mann Creek	6180	1/1	61	18.4	--	--
Bennett Mountain	Canyon Creek	6560	12/31	45	12.4	--	--
Benton Meadow	Priest	2370	12/29	17	3.9	1.2	2.9
Benton Spring	Priest	4920	12/29	40	10.4	5.9	8.3
Big Creek Summit	Salmon	6580	12/26	83	19.9	18.8	14.7
Big Springs	Henrys Fork	6400	12/27	50	11.7	9.4	7.8
Birch Creek	Willow	6800	12/29	23	5.1	--	--
Black Bear (Mt)	Madison	7950	1/4	81	25.3	21.8	17.3
Blue Ridge	Blackfoot	6780	12/29	43	11.7	--	--
Bogus Basin	Payette	6340	12/29	57	15.8	8.5	9.6
Bogus Basin Road	Boise	5540	12/29	26	6.3	2.7	2.9*
Bone	Willow	6200	12/29	22	4.5	--	3.0*
Boulder Creek	Weiser	5440	12/29	53	14.3	7.2	10.2
Breezy Saddle	Clearwater	5010			Delayed	11.0	--
Brockman Station	Willow	6430	12/29	26	5.8	--	--
Brundage Mountain	Little Salmon	7560	12/29	77	24.5	25.0	18.9*
Bruno Creek	Squaw Creek	7920	12/30	44	10.0	--	--
Camp Creek	Beaver	6580	1/3	36	9.0	3.0	4.8
Cayuse Airstrip	Clearwater	3500			Delayed	3.8	5.1*
Copper Basin	Big Lost	7640	12/28	28	7.5	4.4	--
Couch Summit	Boise	6840	12/31	53	14.3	--	7.2*
Cozy Cove	Deadwood	5380	12/28	39	10.5	10.6	7.0
Crater Meadows	Clearwater	5960			Delayed	17.9	18.3*
Crawford Ranger Sta.	Payette	4860	12/26	27	6.7	--	3.0*
Crooked Fork	Lochsa	3610	12/30	20	4.0	5.6	5.1*
Cub River Ranger Sta.	Cub	5450	12/27	19	5.0	--	3.4*
Darby Canyon (Wy)	Teton	8250	12/29	44	11.1	--	9.5*
Deadline	Salmon Falls	7400	12/30	44	13.8	13.1	8.7*
Deadline South	Salmon Falls	7450	12/30	55	16.8	10.7	--
Deadwood Airstrip	Deadwood	5360	12/28	40	11.1	9.5	6.3*
Deadwood Summit	Deadwood	6860	12/28	93	26.1	--	22.7*
Dollarhide Summit	Big Wood	8420	12/28	66	16.1	19.6	12.4*
Elk Butte	Clearwater	5550			Delayed	13.4	--
Emigrant Summit	Bear	7390	1/3	45	13.5	12.8	9.4*
Fairview Guard Sta.	Little Lost	6750	12/31	18	4.6	3.4	1.8*
Fish Lake Airstrip	Lochsa	5650			Delayed	17.0	16.1*
Forty-nine Meadows	Clearwater	4830			Delayed	9.8	--
Freds Mountain (Wy)	Teton	8150	12/30	46	11.8	13.8	8.6*
Galena	Big Wood	7440	12/29	54	12.7	12.7	7.8
Galena (new course)	Big Wood	7470	12/29	55	12.5	--	--
Galena Summit	Big Wood	8780	12/29	58	16.5	15.2	10.4
Garfield Ranger Sta.	Little Wood	6560	12/28	41	9.2	4.4	4.1*
Gibbons Pass (Mt)	Bitterroot	7100	12/29	44	10.6	11.2	9.1
Giveout	Montpelier	6860	12/29	25	5.4	7.6	4.8
Goat Creek (Nv)	Salmon Falls	8880	12/29	36	9.3	10.2	7.8*
Graham Guard Sta.	Boise	5690	12/28	38	10.7	--	--
Graham Ranch	Big Wood	6270	12/29	46	10.7	7.1	5.6
Grassy Lake (Wy)	Henrys Fork	7265	12/28	62	16.1	18.0	14.4
Heart Lake Trail (Mt)	Clark Fork	4800	12/30	31	7.6	--	6.6
Hemlock Butte	Clearwater	5810			Delayed	21.4	20.8*
Hilts Creek	Little Lost	8000	12/30	30	7.0	8.2	--
Hoodoo Basin (Mt)	Clark Fork	6000	12/30	70	21.2	--	22.3*
Hoodoo Creek (Mt)	Clark Fork	5900	12/30	66	18.8	--	18.8*
Howell Canyon	Marsh Creek	7980	12/31	56	15.9	19.5	10.5
Humboldt Gulch	Coeur d'Alene	4250	12/28	32	6.0	4.4	--
Hyndman Creek	Big Wood	7440	12/28	43	10.4	--	--
Idaho City Townsite	Boise	4000	12/29	17	3.1	--	--
Indian Meadows	Teton	8240	12/29	74	21.7	--	--
Island Park	Henrys Fork	6290	12/27	48	10.8	7.5	6.2
Jackpine Creek (Wy)	Teton	7350	12/29	46	12.4	--	--
Jackson Peak	Boise	7070	12/28	66	18.1	18.7	15.1*
Kilgore	Camas Creek	6320	12/30	35	8.8	6.1	4.5
Kruze Meadows	Clearwater	4780	1/3	20	5.9	3.1	--

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.

(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE		Elevation	THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME & DRAINAGE							Average
Lake Fork	Payette	5290	1/2	35	9.0	6.2	6.5*
Lakeview Ridge (Mt)	Beaverhead	7400	12/29	37	9.2	3.4	5.0
Langford Flat Creek	Salmon Falls	5980	12/30	18	3.9	3.3	--
Lava Creek	Willow	7350	12/29	38	9.0	--	--
Little Beaver	Montpelier	6970	12/29	28	7.1	--	5.7
Little Camas Flat	Boise	4940	12/31	23	5.8	--	--
Lolo Pass	Lochsa	5240	12/30	36	8.8	12.0	11.5*
Lookout	Coeur d'Alene	5140	12/30	60	16.8	12.2	13.7
Lost Garfield	Little Lost	6600	12/31	16	4.2	3.4	1.6*
Lost Horse (Mt)	Bitterroot	5940	12/28	44	10.4	--	13.8
Lost-Wood Divide	Big Lost	7900	12/28	56	14.2	16.8	--
Magic Mountain	Rock Creek	6880	12/30	40	10.8	11.0	7.5*
Mascot Mine	Big Wood	7780	12/28	42	10.4	11.2	--
McRenolds Reservoir	Teton	6720	12/29	43	10.3	--	--
Mill Creek Summit	Salmon	8800	12/30	49	13.5	14.7	10.6*
Montpelier Creek	Montpelier	6540	12/29	18	3.9	5.9	3.4
Moonshine	Little Lost	7440	12/31	26	6.2	5.6	4.3*
Moores Creek Summit	Boise	6100	12/29	68	18.3	15.6	13.0
Moose Creek	N.F. Salmon	6200	12/30	37	8.8	10.6	6.9*
Morgan Creek	Salmon	7600	12/28	36	8.4	7.7	5.9*
Mount Baldy	Big Wood	8920	12/30	62	15.5	14.8	8.7*
Mud Creek	Willow	7100	12/29	49	13.4	--	--
Mud Flat	Owyhee	5730	12/28	19	4.4	5.2	--
Muldoon	Little Wood	6320	12/28	34	8.2	2.7	3.2*
Packsaddle Spring	Teton	8200	12/29	59	17.6	--	--
Pierce Ranger Sta.	Clearwater	3080	12/27	14	3.4	4.7	4.2
Pine Creek Pass	Teton	6810	12/30	35	7.4	8.8	6.9
Pole Creek Ranger Sta.	Jarbridge	8360	12/29	38	11.4	10.8	9.1*
Prairie	Boise	4800	1/5	19	5.1	--	--
Road Creek	Boise	5380	12/28	26	6.2	--	5.6*
Rock Flat Summit	Payette	5310	12/28	49	12.3	6.8	7.1
Saddle Mountain (Mt)	Bitterroot	7940	12/29	46	11.2	12.4	11.1
Savage Pass	Lochsa	6170	12/30	40	9.8	11.6	10.2*
Sawmill Canyon	Little Lost	7000	12/31	24	5.8	5.2	3.3*
Sawtell Mountain	Henry's Fork	8720	12/27	80	23.1	20.2	14.1*
Schweitzer Basin	Pend Oreille	6090	12/28	85	24.1	--	--
Schweitzer Bowl	Pend Oreille	4800	12/28	65	18.6	13.8	13.0*
Schweitzer Ridge	Pend Oreille	6200	12/28	79	26.3	18.0	20.3*
Secesh Summit	Payette	6520	1/1	68	20.6	17.9	16.6*
Shanghai Summit	Clearwater	4570			Delayed	10.3	9.9*
Sheep Mountain	Willow	6570	12/29	34	7.9	--	--
Sherwin	St. Maries	3200	12/29	20	4.4	5.2	5.5*
Shoshone Basin	Salmon Falls	5810	12/30	19	4.6	3.0	--
Slug Creek Divide	Blackfoot	7230	12/29	29	7.4	--	7.5*
Soldier Meadow	Clearwater	4650			Not Measured	--	--
Soldier Ranger Sta.	Big Wood	5740	12/31	50	12.8	8.3	4.9*
Somsen Ranch	Willow Creek	6840	12/28	30	6.3	--	5.7*
South Mountain	Jordan-Owyhee	6500	12/29	38	11.3	10.0	5.2
Squaw Flat	Weiser	6240	1/2	58	17.5	--	--
Squaw Meadow	Payette	5900	1/1	68	20.9	--	16.8*
State Line	Teton	6660	12/30	32	6.9	6.1	5.9
Stickney Mill	Big Lost	7430	12/28	33	7.2	5.3	--
Swede Peak	Little Wood	7640	12/28	54	13.4	9.8	8.4*
Targhee Pass	Henry's Fork	6980	12/27	40	9.0	6.0	6.2*
Tex Creek	Willow	6650	12/29	27	5.7	--	--
Trinity Mountain	Boise	7770	12/28	88	26.6	31.6	19.3
Twelve Mile Creek (Mt)	Bitterroot	5600	12/28	34	7.9	10.7	8.4
Twin Lakes (Mt)	Bitterroot	6510	12/28	54	13.2	--	18.2
Twitchell Canyon	Blackfoot	6300	1/4	39	10.1	--	--
Valley View	Henry's Fork	6680	12/27	44	10.1	6.1	6.4
Vienna Mine	Salmon	8960	12/28	70	19.2	24.9	12.3
Webb Creek	Clearwater	4720	1/3	19	5.1	3.3	--
West Branch	Weiser	5560	12/29	58	14.8	8.2	--
Wet Creek Summit	Little Lost	7680	12/30	39	11.2	7.0	4.4*
Whiskey Flat	Montpelier	6960	12/29	22	5.2	--	3.6
White Elephant	Henry's Fork	7710	12/27	56	15.3	13.1	8.9*
Willow Flat	Cub	6070	12/27	31	7.7	--	5.9*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
 (A) Aerial observation Water content estimated.

Data Site	Date	Pillow Snow Water Equivalent (Inches)	Precipitation Water Year (Accumulative) (Inches)
Atlanta Summit	1/1	19.6	22.6
Banner Summit	1/1	15.2	18.5
Bear Basin	1/1	13.0	16.1
Bear Canyon	1/1	11.1	17.4
Bear Mountain	1/1	29.8	36.8
Bear Saddle	1/1	18.1	17.2
Bennett Mountain	1/1	13.5	14.6
Big Creek Summit	1/1	17.0	21.4
Cozy Cove	1/1	11.2	14.4
Crab Creek	1/1	12.4	13.4
Deadwood Summit	1/1	26.7	26.6
Dollarhide Summit	1/1	16.9	19.0
Emigrant Summit	1/1	14.8	13.8
Franklin Basin	1/1	11.3	13.5
Galena	1/1	11.6	13.1
Galena Summit	1/1	11.0	13.8
Garfield Ranger Sta.	1/1	9.7	11.7
Giveout	1/1	5.0	5.9
Graham Guard Sta.	1/1	10.3	14.2
Hilts Creek	1/1	10.7	10.4
Howell Canyon	1/1	13.5	16.2
Humboldt Gulch	1/1	5.3	20.2
Hyndman	1/1	8.2	11.7
Island Park	1/1	10.0	13.0
Jackson Peak	1/1	17.1	20.7
Lookout	1/1	15.8	20.2
Lost Lake	1/1	25.8	26.3
Lost-Wood Divide	1/1	12.8	17.4
Magic Mountain	1/1	10.4	12.6
Meadow Lake	1/1	10.4	10.7
Mill Creek Summit	1/1	11.7	12.0
Moonshine	1/1	6.5	8.4
Moores Creek Summit	1/1	19.6	19.1
Moose Creek	1/1	8.0	10.3
Morgan Creek	1/1	8.0	10.0
Mosquito Ridge	1/1	19.2	24.2
Mountain Meadows	1/1	7.1	10.8
Mud Flat	1/1	3.2	6.9
Oxford Spring	1/1	5.2	10.7
Prairie	1/1	--	10.1
Schweitzer Basin	1/1	30.8	23.1
Secesh Summit	1/1	20.4	22.1
Sheep Mountain	1/1	--	9.9
Sherwin	1/1	4.4	14.3
Slug Creek Divide	1/1	7.9	10.2
Somson Ranch	1/1	5.5	7.7
South Mountain	1/1	14.0	13.6
Squaw Flat	1/1	14.9	18.5

Data Site	Date	Pillow Snow Water Equivalent (Inches)	Precipitation Water Year (Accumulative) (Inches)
Stickney Mill	1/1	6.6	8.2
Sunset	1/1	15.6	18.0
Swede Peak	1/1	12.8	14.4
Trinity Mountain	1/1	24.5	28.0
Vienna Mine	1/1	19.6	20.7
West Branch	1/1	15.4	17.6
White Elephant	1/1	17.0	20.0
Wildhorse Divide	1/1	6.8	13.5

1/ The above are data readings as reported by the automated Snotel system on January 1, 1983. Pillow readings indicate the amount of snow water equivalent in the snowpack as being reported on the pillows. The pillows are generally located adjacent to or in close proximity of the corresponding manually read snow course and will generally correspond well to the manual course. Precipitation readings are accumulative precipitation since October 1, 1982 (beginning of the water year) as collected in the 12-inch snotel precipitation gage.

Questions and comments concerning the data may be directed to the State Soil Conservation Service Office, Snow Survey Unit, Rm. 345, 304 N. 8th, Boise, Idaho 83702.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
 State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
 Forest Service
 ESCS Crop Reporting Service
 SEA Agricultural Research

U. S. Department of Commerce
 NOAA, National Weather Service

U. S. Department of the Interior
 Bonneville Power Administration
 Water and Power Resources Service
 Fish and Wildlife Service
 Water Resources Division, Geological Survey
 National Park Service
 Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

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snow survey reports. Their cooperation is gratefully acknowledged.*

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